Relypodium integrifolimme Endl. Hav & Velle. 13. Arebis sp. . . . . . . . . General appearence somewhat like A. laevigata; smoth and glaucus, branched above; root fusiform; stem-leaves lanceolate, entire, glabrous, not sugittate at the base; petals white, spatulate, twice as long as the whitish sepals; pods and root-leaves not seen. - Low meadow on the upper Pumpkin Seed Valley, July 17. = Brassica Sinapustron Boiss. 14. (Sinapis arvensis L.) Throughout the state. - Rail road bank, Kearney Co. June 15. 15. Erysim un cheirantoides L. -- Rail road bank, Kearney Co. June 15. i6. Erysimum asperum, D.C. -- Hills of Western Nebraska. -- Deuel Co., June 25; Rush Creek, July 2; South of Scott's Bluff, July 23. maisona Engelm and glandular as in S. incisum, Eng., but the seeds are in two rows. -On the top of Wild Cat Mountains, between 5,000 and 6,000 feet above the sea-level, July 16. 18. Masturtium obtusum, Mutt. -- Not in Mr. Webber's Catalogue. -Unusually low specimens, collected on the sands of South Platte River, near Big Springs, D.Co., Aug. 25. 19. Nasturtium palustre Mutt. -- In water. -Platte River, Kearney Co., June 15; Horse Creek, S.B. Co.#), Aug. 1, Lodge Pole, near Kimball, Aug. 12. .20 Masturtium curvisiliqua, Nutt. -- I would have taken it for N. sinuatum, if it hade not been to like the specimens of N. curvisiliqua, Nutt. from Colorado in the Herbarium of the University .--It is new to Nebraska. A few specimens were collected near a well 1 1/2 mile from the Wyoming line, July 31. 21. Masturtium sinuatum, Nutt. -- Not in Mr. Webber's Catalogue. ---Platte River, Kearney Co., June 15. 22. Lesquorella Engelmannii, (Gray) Wats. -- New to Nebraska. It was first collected by Mr. J. Florman, who took it for a small form of Physaria, on the hills of the Upper Lawrence Fork, K. Co. #), Aug. 11. 23. Lesquerella Ludoviciana D.C. -- It is not uncommon on the hills of Western Nebraska, and usually branched from the root. -- D. Co. June 25; B.Co. July 9; S.B.Co., Aug. 24. 24. Physaria didymocarpa, Gray. -- Not in Mr. Webber's Catalogue ---Gollected on ly in fruit in canons south of Scott's Bluff. The specimens differ considerably from tose in the Herbarium of the University of Nebrasks, being of twice the size or more, the cells of the pod not being spherical, but obovate, diverging at the top, &c. July 22. CAPPARIDACEAE. 25. Polanisia trachysperma T.&G. -- Common in sand-draws throughout the Region. -- D. Co., June 27 & Aug. 24; B. Co., July 8; K. Co. -, Aug. 26. Cleome integrifolia T.& G. -- Common in Western Webraska. - Upper Pumpkin Seed Valley, B. Co., July 17; Kimball, Aug. 13. # D. Co = Devel Co; - Ch. Eo. = Cheyenne Co; B. Co. = Banner Co. - K. Co = Kimball Co, S. B. Co. = Scott's Dluff Co.

27. Cleome an ustifolia, Torr. -- South Platte Bottom, near Julesburg, Col. August 24. VIOLACEAE. 28. Viola Nuttallii, Pursh. - In fruit only, on the hillsides, among stones. - Rush Creek, D. Co., July 2; Scott's Bluff, July 20. Polygalaceae. 29. Polygala alba, Nutt. - Sand-hills of Phelps Co., June 18; Hills of McColligan Canon, D.Co., August 22; Scott's Bluff, July 22. CARYOPHYLLACEAE. 30. Arenaria Franklinii, Dougl. ver. miner, Hook. & Arn. -- Hills south of Pumpkin Seed Valley, July 6 & 14. linii and A. pungens are described as having the about equalling the calyx. In the specimens collected on Court House Rock, Ch. Co., July 4, and on the hills, of Scott's Bl ff, July 23, the petals are nearly 1/2 longer. Eventheimi Dough, ven. minor Hooks In. 32. Arenaria sp. . . . . . . . Very low and cushioned, 1-2 inches high; cyme 1 in., few-flowered, generally 1-flowered; leaves about 3 lines long. It is perhaps a dwarfed variety of A. Franklinii .--Tills of the Lawrence Fork, B. Co., July 8. PORTULACCACEAE. Portulacea oleracea, Eng. -- Seen on the bank of U. P. R. R. between Potter and Sidney, Uh. Co. 33. Talinum teretifolium, Pursh. -- Sand-hills of Kearney Co. June13. MALVACEAE. 34. Callirrhoe involucrata, Gray. -- On sandy soil in KearneyCo, July June 13. J35: Callirrhoe alcaeoides, Gray. -- Together with the preceding. -36. Malvastrum coccineum, Gray. -- Hills and prairies: DeuelCo., June 25; Scott's Blumf, July 21; Potter, August 14. LINACEAE. 37. Linum rigidum, Pursh. -- Hills: Phelps Co., June 18; Kearney Co., June 15; Lawrence Fork, B. Co., July 9. CELASTRACEAE. 38. Celastrus scandens, L. -- Itlands in Platte River, Kearney Co/, June 15. VTACHAE. Vitis riparia, Michx. -- Thoughout Nebraska; in the west in canons. 39. Ampelopsis quinquefolia, Michx. - As preceding. -- Lawrence Fork July 9. SAPINDACEAE. 40. Negundo aceroides, Moench. - Throughout Nebraska; in the western part, only in canons, near springs. Hackberry Springs, B.Co., July 11.

the eastern form the type of Ps. florib inda, Nutt., an appropriate name for the latter would be Psoralea tenuiflora, Pursh. var. floribunda (Nutt). On prairies: Desel Co. Jane 27; Rush Creek, July 2; Sidney, Aug. 19: - (48b) Phelps Co., June 18. 49. Psoralea argophylla, Pursh. -- Pairies: Pumpkin Seed Valley, July 18; Kiwa Valley, S.B.Co., July 28. ant Valley, S.B. Co., July 29. It agrees with the discription of Ps. argop-hylla, Pursh. var. decumbens, Gray. in Pac. R. Rep. XII. 41., except that the stipules are very small, much shorter than the petioles. The leaves are glabrous above and slightly hairy beneath. 51. Psoralea campostris, Nutt. - Sand-hills, Kearney Co., June 15; -In sand, Lawrence Fork, B. Co, July 9. 52. Psoralea hypogaea, Nutt. - Hills, Deuel Co. Only 3 specimens found on June 26. Psoralea esculenta. Pursh. is found throughout Nebraska. 53. Psoralea lanceolata, Pursh. - Sand-hills, Kearney Co., July June 15: Sand-draws, Lawrence Pork, B.Co., July 9. 54. Dalea alopecuroides, Willd. - Platte Bottom, Kearney Co., Aug. 29. 55. palea laxiflora, Purst. - McColligan Canon, D. Co., August 22. Dalea 56. aurea, T. & G. - Hills, Scoot's Bluff, August 6; McColligan Canon, August 22. 57. Petalostemon candidus, Michx. - Eastern and central Nebraska; common. - Platte Bottom, Kearney Co., August 29. 58. Petalostemon coundidus, a forma in collected this plant, last year, in Deuel Co. In my notes I placed it near P. gracile. Dr Britton states that it is contained in the Pringle's Collection under the name Petalostemon candidus, var. occidentalis, Gray, and that le can not find any description of the same. He consiler it as P. gracile or a variety of i, or a near related species. I am more inclined to refer it to P. gracile than to P. candidus, although it seems to be a connecting link. It is often postrate, most commonly decumbent, sometimes ascending, rarely nearly upright (58b). The leaves are from obovate to nearly linkar, obtuse, generally less than 1/2 in. long, but in one wright variety (58b), from the Platte Bottom in Scott's Bluff Co., much longer. This Petalostemon differs from P. candidus, Michx. in the following poits: The stem is documbent, seldom nearly upright; thebracts are ovate with a slender point, about equalling the cal-yx and deciduous (in P. candidus Helary longer than the calyx, and, as far as I know, persistant), leaflets obtuse (in P. candidus generally acute). From P. gracile, it differs in a stronger groth, by being more leafy, by its broader leaves, and by the length of its spikes, which become lax in fruit, and, perhaps, by the stronger nerves on the calyx. Smaller, narrower 14 leaved and short spiked specimens (58c) can hardly be distinguished from P. gracile in the Herbaroum of the University. The full description of this Petalost mon is as follows: Stem decumbent, rarely nearly upright, glabrous, striate or slightly angled; leaflets, 1-2 pairs, obovate-oblong, some times nearly linear, 2-6 lines (rarely, nearly 1 in.), punctate beneath; spikes

cylindrical, in fruit elongated, lax; bracts deciduous, ovate, with a slonder point, equalling the colyx, which is strongly nerved and glandular punctate below the lanceolate teeth; petals broadly oblong, vexillum broadly cordate. Sandy hills: Deuel Co., June 25; Lawrence Fork, July 8; Scott'S Bluff, July 22; (58b)Platte Bottom, S.B.Co., July 27; (58c) Kiwa Valley, July 28. = violaceus Micha, your 59. Petalostemon tennifolius, Gray. -Last year I found, near a sand draw in Deuel Co., a few specimens of a Petalostemon in fruit. The lowness of the plant, and the fulvous color of the spikes, caught my attention. I preserved as a curious specimen of P. violaceus. Funting for a description of the preceding species, I struck the description of P. tenuifolius in Wheeler's Report. Seeing that it fitted my other, small Petalostemon, I gave this the name P. tenuifolius. There are no specimens in the Herbari m to compare it with, but Dr. Britton, to whom I sent specimens, saixd that the determination was correct. This year I have collected the same in flowers. The specimens fully agrees with the descriptions, as well by Dr. Watson in Wheeler's Report, as by Dr. Gray in Proc. Am. Acad. Dr. Gray describes the flowers as being rose-purple; Dr. Watson, as rose-colored. In fact, they shade from rose-purple to rose, or, in withering, to pink. Thestems beanch from a perennial base, are generally simple, hirsute, with long-peduncled heads. What separates it from P. violaceus (as I understand it), is, besides the general "habitus", the hairs of the calyx, which in P. violaceus are silky and more appressed and in P. tenuifolius more wolly and spreading, first white, then fulvous; and the shape of the bracts, which in P. tenuifolius are broadly ovate, abruptly contracted into an awn, and in P. violaceus ob-ovate or spatulate, with a broader tip and the upper part naked. Some of the specimens collected on the hills of S.W. Deuel Oo. (59b), seem to be intermediate between the-wee two, and I can not see any specific difference between them and my specimens from Big Springs (60), which undoubtly belongs to P. violaceus If any of my specimens belong to P. tenuifolius, I regard it as a variety of P. violaceus. Sand-draw, D.Co., June 27; Lewrence Fork, B.Co., July 8; Kimball, August 11. 60. Petalostemon violaceum, Michx. - Common in eastern Nebraska. -Big Springs, D. Co., August 24. is described as having white flowers and obtuse leaves, 2/3 inch long. My specimens have yellow flowers and acute leaves, some over an inch long. P. macrostachyus is not given in Mr. Webber's Catalogue, Thave seen no specimens of it. It is not found in the Herbarium of the University, but it is reported as being in the Herbarium of Doan College, Crete, Neb. Those preserved there are said to have yellow flowers. Maybe, our Nbraska plant is distinct. - On the sandhills, north of Platte River, S.B.Co., August 4. 62. Petalostemon villosus, Nutt. - Sand-draw, D. Co., August 24; Sandhills, Kearner Co., August 29. 63. Amorpha canescens, Nutt. - Sand-draw, Deuel Co., August 24. 64. Amorpha fruticosa, L. -Near water; Platte River, Big Springs, D. Co., August 25. Glycyrrhiza lepidota, Nutt. - To common throughout Nebraska.

So. Mille Tomas alba, Lam. - Platte Bottom, near Kearney City, August 29. 56. Astragalus carvocarpus, Ker. -- Prairies, throughout Webraskh. neuel Co., June 25. 37. Astrogalus mollissimus, Torr. - Common west-ward on prairies. -Road-side, Kearney Co., June 15. 68. Astrogalus Canadensis, L. - Throughout Nebraska. - Lawrence Fork, B.Co., July 9. 09. Astragalus adsurgens, Pall. - Sandy soil in the West. - McCollige an Canon, D.Co., June 2; Jawrence, Pork, B.Co., July 6; Scott's Bluff, July 20. 70. Astramalas recomosas, Purch - Bills: Near Curtis, Trontier Co., June 22. 71. Astragal is gracilis, White - lills and prairies in western Nebras -Ra. - Curtis, Frontier Co., June 28; Laurence Fork, B.Co., July 5. 72. Istragalus microlobus, Gray. - Cultivated soil; not as common as the preceding. - Deucl Co., Jun 25; Chevenne Co., August 13. 73. Astragalus Missouriensis, Mutt. - There is in the Horbartum of the University only one specimen under this nime, but that belongs undoubtly not to A. Missouriensis, but to A. Shortichus, Nutr. - -Tills: Curtis, Prontier Co., June 22; North of Kimball, K. Co., Aug. 10. 74. Astragalus pur missimis norre Grange I am in doubt if the determination of this species is correct or no. There are no specimens in the Lembarium of the University to com-pare it with, the description of A. pubontissimis is rather brief, and, besides, Astragalus is a very polymorphus genus; wherefor I would not be much surprised, if these specimens should belong to another species. I add here a short description: Plant apparantly annual, low, 2-3 in., branched from the root, silky canescent; leaflets, 2 pairs, oval-obovate; raceme 2-4-flowered, ofton very shorte and the flowers sceningly sessile in the axils of the leaves; flowers ocholeucous, tinged with purple; pod one-celled membranous, ovate obling, curved upward. Canon in Cosper Co.; Hillshear Curtis, Frontier Co., June 22; Lawrence Fork, B.Co., July 0; Wills south of Kimball, August 12. 75. Astragalus pictus, Gray, var. filifolius, Gray. - In fruit. - -Hills north of Presport, B. Co., July 14; Wild Cat Mountains, B. Co., July 16. 76. Astragalus pectinatus, Dougl. - In fruit; preiries near Gering, S.B.Co., July 31; and in Pleasant Valley, S.B.Co., July 29. 77. Astragalus multiflorus, Gray. - Near a spring in Pleasant Valley on July 29. 78. Astragalus caespitosus, Gray. - In all Plowering specimens I collected, the racemes were few-flowered and about of the length of the leaves. - Rocks, Deuel Co.: me- McColligan Canon, June 26; Wild Cat Mountains, B. Co., July 16. 79. Astragalus Kentrophyta, Gray, - Court Fouse Pock, Ch. Co., July

12 10; Kiwa Valley, S.B.Co., July 28. Pencedamm Kingis Walson 129. Recorded to senicatus Goulter & Ross. Collected for the firste time in Hebraska. The rays are sometimes more than twelve, a and the fruit over 3 lines long. - Scott's Bluff, in the Pass, July22. 150 Cymopterus montanis, T. & C. - Door-yard, Deuel Co., June 27. 131. Cicuta maculata, L. - Platte Bottom, Koarney Co., June 15; --Scott's Bluff, July 20. COMMACIME. 132. Counus stulenifera, Michx-Low land: Platte Bottom, Meanney Co., June 15; Canon, Riwa Valley, S.B.Co., July 28. CAPRIPOLIACEAE. 133. Symphoricarpos occidentalis, Eook. - The style is often in this species slightly bearded, a fact that Rev Bates of Valentine has called my attention to .- Lawrence Fork, B. Co., July 8, and near Sidney, August 19. RUBIACEAE. 134. Calium borcaletir- Canon, north of Pumpkin Geed Valley, B. Co., & July 11; Wild Cat Mountains, R. Co., July 16; Spring, Fleasant Valley, S. R. Mo. July 29. COMPOSITION. 135. Vernonia fasciculata, Michx. - Platte Bottom, Big Spring, D. Co., August 24. 136. Kuhnia capstorioi es.L. - var. corymbulosa, T. A. G. - Carter Canon. S. B. Co., July 25. 157. prickalia grandiflora, Nutt. - Collected for the first time in Mebraska, by me in 1890. It was seen in several new localities this summer, - Canon south of Lawrence Fork, B Go., July 10; Scott's Bluff, July 22. 138. Lietris punctata. Hook. - Miroughout Nebraska. - Scott's Bluff. August 5; McColligen Camen, D. Co., August 22. 159. Listris spicata, Willia - My specimens re like L. pycnostachya Mich. therin that the bract are colored, but they are obtase and appressed asin L. spicata, the flowers are about 10 in each head. -Platte Bottom, West of Scott's Bluff, August 5. It is not reported for Nobraska before, and it is not given in Coulter's Manual. 140. Gutierrezia Muthamiae. T. & G. - ery variable; nearly every locality has its own form. - Canons, near Scott's Bluff, July 27; -Frairie, near Horse Crock, August 1. 141. Grindelia squarrosa, Dunal. - The specimens seen in Western Nobrska had un-usually thin leaves. - Carter Canon, S.B. Co., July 25; Horse Creek, August 1. 242. Applopappus armericides, Gray. - I am in doubt, if the determination of this is correct, or ing to the lack of good material,

1.5 and to the fact that there are no specimens of A. armericides, or of any related species, in the Herbartum of the University. A. armerioides is not recorded for Nebraska . - Hills, south of Freport, B.Co., July 1. 143. Applopappus Futtallii, T. S. C. - Tot in Tebber's Carelogue/I col lected only one specimen in 1890; but this year I found that it is very comon in Banner, Scott's Bluff, Counties. - Fills, south of Tro-port, B. Co., J ly 1; Mild Ost Mo ntains, July 16; Mpper Lawrence Pork, H. Mo., Angust 11. 141. Applopappus spin uldeus, T.C. - Prairies, common: Kosmer Co., June 15; Tild Cat Hountains, B.C., July 13; Typer La Warce Fork, H. Co., Menet 11. 140. Applopappus rubiginosus, ". E. - Platte Valley, Julosburg, Colorado, August 21. 146/ Crysopsis villuge, Mutt. - Common. - Punkkin Sood Valley, Jul ly 14; Tiwa Wallow, S. D. Co., July 28. 147. Grysopsis villosa, Mutt. var. hispida, Gray. - Sand: Lawrence Fork, 3. Co., July 10; Some of the specimens from the mills/south of Fumpkin Seed Valley, July 11, seem to be between this and var.ericoides. 149. Grysopsis villosa, Nutt. War. canoscons, Gray. - McColligan Canon, 1. Co., August 22; Lawrence Pork, E. Co., July 8; Hills, north of Platte River, J. D. Co., August 5. 149. Crysopsis villosa, Nitt. var. sessiliflora, Cray. - Collected for the first time in Mebraska. - Sand-draw, D. Co., August 94. \_\_150. Pigglowia Towardi, Crav. - Not reported for Nebraska, - Fills, north of Traport, B.Co., July 14 (not in bloom); outh of Scott's Bluff, July 24. 151. Bigelovia graveolens vor glabrata, Cray. - 5-7 feet high bush. -Canon, east of Scott's Bluff, July 21 and August 6. 102. Bolidago Missouriensis, Mutt. - It is vory variable; several forms were collected: a. - Kiwa Valley, J. B. Co., July 28; McColligan Canon, D. Co., August 22; b. - Cedar Valley, S. B. Co., July 25; c. - Kinh ball, August 12. a separate number, because it differs con-siderably from the type. The paniele/is unusually narrow; the bracts few, long, thin, and pupary margined. - Near Scott's Bluff, July 25. Leaves thin, lancolate to nearly linear; stem vory slender; panicle small, nave row, achenes somewhat silky. - Canon, Kiwa Valley, S. B. Co., July 27. 15 . Solidago Canadensia, L. - Common; Platte River, west of Scott's Bluff, August 3, 156. Solidago serotina, Ait. (?) - This is perhaps only a smoth variety of M. Canadensis. - Platte River, north of Scott's Bluff, July25. 157. Solidago nemovalia, dit. www. incana, Gray. - Common in the West; Hills: nearKimball, August 12; in Kiwa Valley, S.B. Co., July 28.

near to S. nemoralia; but the leaves are eliptic oblong to obovare, entire or slight-ly toothed, very scabrous; panicle narrow, leafy, the branches short and nearly upright. It seems to connect S. nemoralisand the "GLUL RULA FLORAE" .- Hills, near Lodge Pole, Ch. Co., August 19. 159. Solidago lancsolata, L. - Throughout Nebraska, - Platte River, Big Springs, D. Co., August 24. Solidago rigida was seen at several places, but not in bloom. 160. Townsendia grandiflora, Nutt. - Hills of Western Nebraska: Forth of Pumpkin Feed Valley, B. Co., July 6. 161. Aster communatus, 7.8 c. - The heads of some of the specimens are rather small, but con/tain over 20 rays. - Near water: Carter Canon, S. B. Co., July 25; Lodge Pole Creek, near Kimball, August 12; Sand-draw in Deuel Co., August 24. 162. Aster adscendens, Lindl. (?) - I am in doubt if the Jetermination of this and of the following is correct. - Lodge Pole Creek, nearKimball, August 12. 163. Aster Fremonttj.Gray. - Horse Creek, S. E. Go., August 1. 164. Aster Tradescantii, -Platte Bottom, Big Spring, D. Co., Aug. 24. 160. Aster foliacous, Lindl .- Platte, north of Scott's Bluff, July 23; Morse Creek, S.B.Co., August 1; Lodge Pole Creek, near Mimball, Angust 12. 166. Aster cricaefolius, Rothrock. - Prairies: Venanco, Perkins Co., June 25. 197. Aster tanacetifolius, t.B.M. - Common in the West. Scott's Bluff, July 23. 108. Ericeron pumilus, Mutt. - hy specimens are unusually large. - lills: Deuel Co., June 27; Lavronce Fork, B. Co., July 10. The home on Herby year, of the White 169. Erigoron canus, Gray .- Not uncommon, McColligan Canon, D. Co., June 25; Scott's Bluff, July 22. 170/ Erigeron divergens, T. & G. - Scott's Bluff, July 22. 171. Erigoron strigosus, Muhl. Sand-hills, Kearney Co., June 15. 172. Friguron Canadensis, L. - Not very comon in the West. - Canon, Kiwa Valley, S.B. Go., July 28. 173. Antennaria plantaginifolia, Hook. - A un sually slender and small laeved form from Pumpkin Seed Valley, B. Co., July 15. 174. Iva ciliata, Willd .- Platte, Kearney City, August 29. 175. Iva axillaris, Pursh. - Not in Mr. Webber's Catalogue. - Near Pla Platte River, F.B.Co., July 23. 176. Iva Kanthifolia, Nutt. - Scott's Bluff, July 24. 177. Ambrosia, E--+ trifida, L. ver. integrifolia, T. & C. - Rare in

Mastern Nebraska, but more common than the type in the West .- Sanddraw, near Potter, Ch. Co., August 15. 176. Ambrosia psilostachya, D.C. - Rare in Eastern Nebraska, but more/commen in the western part of the state. Sand-draw, near Potter, Ch. Co., August 15. 179. Franseria Hookoriana, Nutt. - It is not given in Mr. Webber's Catalogue of the Flora of Nebraska. Seemingly, it was collected for the first time in Nebraska this year. Maybe, it has been overlooked on account of its likeness to Ambrosia Psilostachya and A. brtemisaefolia. - Sand-draw, near Potter, Ch. Co., August 15. 180. Franscria discolor, Nutt. - There is no record at the Universitty, that it has been collected in Hebraska, except that it is given for the state in the Synoptical Flora, and, consequently also in Coulter's Manual- Valley, 6 miles south of Dix, Rimball Co., Aug. 14. 181. Franseria tomentosa, Gray. - It has not been reported for Webrhska before, although it already begins to become a trouble-some weed in Rearney Co., Especially on low, rich soil -- Near Axtell, August 29. 182. Lepachys columnaris, T. & G. - Throughout Nebraska. - Cedar Valley, S. B. Co., July 18. 195. Lepachys columnaris, ". & c var. pulcherrima, T. & . - Varies with brown rays: Codar Valley, D.B.Co., July 18; and with purplish rays: Scott's Bluff, July 22. 184. Helianthus annus, L. var. . . . . Small specimens, in appearance Mery like H. petiolaris. - Near Kimball, August 12. 185. Helianthus petiolaris, Mutt. - Prairies, Kimball, August 12. 186. Helianthus rigidus, Desf. + Throughout Nebraska on the hills. Upper Lawrence Fork, N. Co., August 10. 187. Helianthus Maximiliani, Schador. Platte Bottom, Kearney City, August 29. 188. Helianthus Maximiliani, Schader, var. . . . - This is undoubtly H. Maximiliani, althoughtle lower part of the stem is smoth. The rays are golden yellow, and the paleae are long, lanceolate. It may be a broad leaved and hairy variety of I. Muttallii, which I have never seen. - Platte River, near Horse Creek, S.B. Co., August 1. 189% Coreopsis tinctoria, Mutt. + Upper Lawrence Fork, M. Co., August 10, 190. Bidens cernua, L. - var. . . . . Alow, discoid form, with nearly entire leaves, large outer involuere and hardly modding head. - Sands of South Platte River, Julesburg, Colorado, August 28. 191. Bidens Chrysanthemoides, Mich. var. . . . - This is the B. chrysanthemoides of several Nebraska collectors and of L. F. Ward from Colorado. In many respects, it does not agreewith the description of 62. S. chrysanthemoides in Gray's und Coulter's Hanuals. The outer involucrois longer than the inner, sometimes very foliaceous; the rays are only about 1/2 longer than the inner bracts, oval, about 1/2 in. long, golden yellow; leaves rather sharply serrate, a

little conate; heads little modding, if at all. Bidons cernua is common in Eastern Mebraska, especially the discoid form. When well aevelloped, it always has nodding heads, with large bracts. The only, (in my opinion) true B. chrysanthemoides I have seen in Nebraska was collected by me, in 1889, in a creek noar Wahoo. It had comparatively short outer bracts, broadly oblong rays, about 1 inch long; thicker, monthly entire, well conate leaves, and more glaucous aspect. I would, maybe, have taken no.191 for a hybrid of the two, if they had been growing together; but I did not see any other Bidens than this and 3. frondose in all whole Western Nebraska. - Upper Lawrence Fork, K.Co., August 10; Lodge Pole, Ch. Co., August 19. 192. The Tesperma filifolium, Gray. - Collected in Nebraska for the first time, by me in 1890. The rootis annual, biennial, seemingly also perennial; but there is no creeping rootstock. The divisions of the leaves are sometimes broader than the rachis. > Prairies: Deuel Co., June 25; Rush Creek, July 2; Sidney, Ch. Co., August 19. 103. Thelesperma gracile, Gray. - Common in Western Nebraska, McColligen Canon, D. Co., June 26; ille in Banner Co., August July 11. 194. Nymenopappus tonuifolius, Pursh. . . . - I believe that this belongs to H. tenuifolius, although the corolla is light yellow, and not white. I would have named it H. flavescens, Gray., but for the range and for the achenes, which are long villose .- Sandhills of Phelps Co., June 18. 195. 4 Tymenopappus sp. . . . . - I do not know where to refer this, the most common Hymenopappus of Western Nobraska. It seems to be between H. tenuifolius and H. filifolius. The stems are generally several, clustered from a perennial candex, slander, 12-15 in. high, with few stem-leaves, but not scapiform. The heads are small, hardly 4 lines; the bracks with yellowish tips; the corollas are gonerally bright yellow. - Hillsa and canons: between Lawrence Fork and Pumpkin Seed Valloy, B. Co., July 6; Wild Cat Mountains, July 16; Maybe, it is H. luteus of Muttall. 196. Actinella acsulis Nutt. - In the Synoptical Flora, and also in Coulter's Manual, this species is said to have the-reys 3-5 in. long rays, which is, un-doubtly a missprint, not corrected in the reprint. - Hills of the West, common. - McColligan Canon, D. Co., June 26; Rush Creek, July 2; Scott's Bluff, July 24. 197. Helenium autummale, L. - Platte Bottom, S. B. Co., July 24. S:B.Co 198. Bahia oppositifolia, Mutt. - Salt marsh, near the Wyoming line. July 31. 199. Chaenactis Douglasii; Mook. & Arn. var. alpina, Gray. (??) - As there are no flowers, and the fruits found consist of 3 incompleter achenes, I am in doubt if the determination is right. There are no specimens in the Herbarium of the University. The general appearance, the receptacle and the involucre seemed to indicate that the plant belonged to HELEWIOIDEAE, and the involute bracts made me suppose that it belonged to Chaenactis. The plant is new to Hebraskas It was first notice by Mr. J. Flodman on the hills of Upper Laurence Fork, K.Co., August 10. 200. Dysodia chrysanthemoides, Lag. - Throughout Nebraska, common. Prairie, near Horse Creek, S.B.Co., August 1. 201. P

10 220. Ligodesmia juncea, Don. - Unusually large specimens from a canon north of Freeport, B. Co., July 15. 021. - See page 11. Lobeliacoac. 222. Lobelia spicata, Lam. - Platte Bottom, S. B. Co., August 3. EAMPANULACEAE. 223. Campanula rotundifolia.L. - Carter Canon, S.B.Co., July 25. PRIMULACEAE. 224. Dodecantheon Meadia, L. - Only in fruit. - Garter Genen, S. B. Ge., Platte Bottom, Ch. Co., July 3. OLFACEAE. 225. Fraxinus pubescens, Lam. - Rare in Nebraska, especially in the western part of the state. We saw a for trees in a gorge, on Little Medicine Creek, near Curtis, Frontier Co., June 22, and also a few at Fackberry Springs, B.Co., July 10. One at the latter place measur ed over 7 feet in circumference. Fraxinus viridis, Michx. f., is common throughout Nebraska. It was seen at several places, but no specimens were collected. APOCYNACEAE. 226. Apocynum cannabinum, L. - Hills in Keurney Co., June 13; Scotts Bluff, July 22. ASCLEPIADACEAE. 227. Asclepias speciosa, Torr. - Sand-draw, D. Co., June 25; La rence Fork, B. Co., July 8. 228. Asclepias arenaria, Torr. - In budds: Sand-hills, Kearney Co., June 13; Sand-draw, D. Co., in fruit, August 23. 229. Asclepias verticillata, L. var. pûmila, Grav. - Sandr places. --Lawrence Fork, B. Co., July 8. 230. Acerates auriculata, Eng. - It is very likely to be confounded with Asclepias stenophylla, Gray/which grows on the sandhills of-Ku Kearney Co. The form of the hood and ef the the auricles, and the absence of the horn in Acerates auriculata, are the on-ly characters that separates the two. It was collected by me for the first time in Nebruska, in 1890. - McColligan Canon, D.Co., June 25; Scott's Bluff, July 24; Sand-draw, near Kimball, August 12; Canon in Banne Co., Alaus 8. 231. Acerates viridifolia, Kll. - Hills, north of Lawrence Fork, B. Co July 10. 232. Acerates viridifolia, Ell. ver. lanceolata, Grav. - Hills, north of Lawrence Fork, B. Co., July 10.

20 1 Scott's Bluff Co. - Wild Cat Mountains, B. Co., July 16; Scott's Bluff July 26. 111 26.

primatifida Nutt., flo 2 reeds agracy. But in The ordinary from flo. one Instead
246. Gilia 57. . . . . . Glandular pubescent; root biennial or, distributed may be, perennia; stem branched, about 1 foot high or higher; leavelong the es somewhat irregularly pinnatifid; lobes linear, not wider than the rachis, somewhat fleshy, mucronate; flowers in a branched pani-huelnga cle; corolla violet or blue with a white tube, somwhat funnolform, of the cle; 2 lines long; stamens excerted; calvx with prominent ribs. It may be a variety of G. pinnatifida, which I have never seen. The corolla, however, is smaller than in the description and not strictly salverform. It is not to the state. - Sands of Platte River near Horse Grock, S.B. Co., August 1. time in Nebraska, in 1890, by Mr. T. A. Williams, in the foot-hills of Black Hills. This year, I found ahow station at Scott's Bluff, July 22. I would have named it P. circinaga, Jacq., the description of which agrees very well; but it is is not at all like P. circinsta of C.C. Porry's collection of 1876 from North California, which is strigose, not canescent, has shorter and smaller flowers, nearly glabrous filements, and the leaves variously lobed. In all plants I have collected, the leaver are entire; but in one specimen of k Mr. T. A. Williams', there were a few small pinnae below. The leaves a are silky canescent on both sides, strigose onlyon the pedicels; flowers light blue or whitish; root-leaves spatulate-oblanceclate entire; filaments bearded. BODDEGIMACTAL. 248. Heliot opium currasivicum, L. - Wet meadow, saline soil in Pumpkin Seed Valley, B. Co., July 16. / 249. Echinospermum floribundum, Lehm. It is not given in Webber's Catalogue; but was collected, in 1890, by Mr. TA. Williams in War Bonnet Canon in N.W. Nebraska. A new locality was found, this summer, July 9, in the plum-thickets in Lawrence Fork, B. Co. 250. Echinospermum Redowskii, Lehm. var. occidentale, Watson. - Dooryard, Phelps Co., June 18. 251. Felinospermum Redowskii, Lehm. var cupulatum, Gray. - Prairie, Venango, Perkins Co., June 23. 252. Krynitzkia crassis pala, Grav. - Sandy prairies, especially where the sod has been disturbed, as in prairie-dog towns. - Douel Co., June 25. 253. Krynitzkia Fendleri, Gray. - It is not given in Webber's Catalogue, but was afterwards collected in 1890, by Rev. Bates of Valen tine, Neb: Wild Cat Mts, B. Co., July 17. 254. Krynitzkia Jamesii, Gray. - Not given in Webber's Catalogue. It was collected by me, in 1890. - San'y prairies: Deuel Co., June 25; Wild Cat Mts., July 16; Lawrence Fork, B. Co., July 8. 255 Krynitzkia glomerata, Gray. - Rocky hills: McColligan Canon, D. Co., June 26; Rush Creek, D. Co., July 2; Lawrence Fork, B. Co., July 9; Scott's Bluff, July 24.

This has narrower leaves, and norrower fruit Than specimens in Herb. Lake lobes, coralle lobes ( mounded, cutive), and corolla lube are of about equal length. It seems to be a form of this spesses 256. Krynitzkia sericea, Gray. (?) - As no specimens in flowers were seen. It might, perhaps, be K. fulvocanescens. Neither of the two is given in Webber's Catalogue. - Cliffs: McColligan Canon, D.Co., & June 26: Upper Lawrence Fork, K. Co., August 10. 257. Mertensia lanceolata, D.C. - In fruit, among bushes in Lawrence Fork, B. Co., July 8. 298. Lithospermum hirtum, Lehm. - Sand-hills of Kearney Co., June 15, 259. Lithospermum angustifolium, Michx. var. . . - It was collected only in fruit. It is very low and much branched; but is, undoubtlu, nothing but a stunted form of L. angustifolium. - Prairies, Venango, Perkins Co., June 23. 260. Onosmodium Carolinianum, D.C. - Prairies, Kearney Co., June 13. CONVOLVUIMONE. 261. Ipomaea leptophylla, Torr. - Prairies of Western Nebraska. - -Lawrence Fork, B. Co., July 8. 262. Convolvulus sepium, L. - Road-side, east of Potter, Ch. Co. Aug. 17. 263. Evolvulus argenteus, Pursh. - Sand-hills, Kearney Co., June 10; Sand-draw, Deuel Co., June 25. 264. Cuscuta sp. . . . I do not know to which this should be referred. I at first took it for C. Gronovii, Willd., but the capsule is depressed globular, which would associate it with C. arvensis and C. tenuiflora. It differes from the former therein that the flewers are flower-clusters are more or less cymose, not dense, and from the latter in being more slende, and in having a broadly campanulate coroll: with spreading lobes. More slender specimens resemble somewhat C. Californica; but the lobes of the corolla are obtuse: - On Chenopodiumand Polygonum, and occasionally on Heliantus annus and Psoralea lanceolata. - Canon in Kiwa Valley, S.B.Co., Jaly 29. Cuscuta Isronovii. Walls is also found in the Western netracka but I did not collect also specimens, as I did not find it in bloom. SOLANACEAL. 26). Solanum triflorum, Nutt. This, Krynitzkia crassisepala, and Hunroa sqarrosa frequent the prairie dog towns .- Lawrence Fork B. Co., July 8. 266. Solanum nigrum, Le - McColligan Canon, D. Co., August 22. 267. Solanum rostratum, Dunal. - It is becoming more and more common eastword, and in some places even a troublesome weed. - Broken soil, Deuel Co., July 1. 268. Physalis Virginiana, Mill. - Rail road banks, Kearney Co., June 15; and Curtis, Frontier Co., June 22. 269. Physalis mollis, Mutt. var. cincrascens, Gray. - The species of Physalis are very perplexing, especially those of Western Nebraska, In Eastern Nebraska, I have collected 3, viz. P. angulata, Virginiana, and lanceolata. All agree well with the descriptions in the Synoptical Flora, P. lanceolata var. laevigata, Gray., is also given in Webber's Catalogue, but I have not seen any specimens from Eastern Nebraska. In Western Nebraska I have collected 5 different

forms (spicies or varieties), which have given me more or less trou -

ble. In fact, I do not know to which to refer them. The first I ha-

ve referred to P. mollis, Putt. var. cinerascens, Gray. It is very

similar to the specimens in the Herbarium of the University. The

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Mearney Co., June 15; Prairie, near Venango, Gesper Perkins Co., June 23. VERBENACIAL. 306. Lippia caneifolia, Steud. - The peduncles are generally a little longer than the leaves, and the stems ar sometimes rooting at the nodes. - Sandy prairies: Phelps Co., June 18; Kiwa Valley, S.B.Co., July 29. INCTACINACEAE. 307. Oxybaphus nyctasineus, Sweet, var. oblongifolius, Gray. - Hill, of Resel Ge., July 10. 308. Oxybaphus engustifolius, Sweet. - Hills: Scott's Bluff, July 24; Kimbull, August 12. 309. A.bronia fragrans, Nutt. - Vallevs: Rush Creek, D.Co., July 2; Lawrence Fork, B. Co., July 8.

Abronia micron tha! with 339, IBLECEBRACEAF. 310. Paronychia Jamesii, T. & G., Barron hills: Denol Co., June 23; Scott's Bluff, July 24. FIGUIDEAE. 311. Mollago verticillet . I. - Sand-draw, Donel Co., August 24. Not in Webbers Cataloguer. This plant shows a good varietal difference in the smaller seeds, which moreover lack all but two of the six or more crited midges on their inface of those of the species. J. ll. H. Veb 27, 1892, AMARANTACTAL. 312. Amarentus blitoides, Watson. - Cultivated soil: Rush Craek, Jul ly 2; Kiwa Valley, S.B.Co., July 29. 313. Amarantus Shitordes Wats, - Stem prostrate, terete, and succulent; leaves as those of A. blitoides, but not as rigid; sepals and stamens 5; . Maybe, it belongs to A. Torreyi/Benth., which I have not seen. - In a canon, east of Scott's Bluff, July 24, and on broken land in Pleasant Valley, S. B. Co., July 30. At the latter station, it has become a somewhat troublesome weed. It has received the name "Mountain Purslane" In drying, the succulent becomes wrinkled, and looks as furrowed, as in A. blitoides, which it then resemb bles very much. New to Mebraska. 314. Froelichia Eloridana, Mog. - Sand-hills, Kearney Co. August 29. 315. Froelichia gracilis, Mog. - Leaves oblong lanceolate, mostly radical; calyx, in fruit, with a fe-w sharp tubercles, or nearly even. Not reported for Nebraska. - Sand-draw, Deuel Co., August 24. CHENOPODIACEAE. 11. Cycoloma platyphyllum, Moq. - Sandy soil: Hear Court house Rock, Chicof, July 3; Kiwa Valley, S.B. Co., July 30. 317. Chenopodium Fremontii, Watson. var. incanun, Wats. - Not in Webb ber's Catalogue. - Sandy places: Lawrence Fork, B. Co., July 8; Kiwa Valley, S.E.Co., August 1. 318. Chene, odium leptophyllum, Mutt. - Common in Kearney Co., and in the West. A worse weed than C. album. - Kearney Co., June 13.

26 in the West. A worse weed than C. album. - Kearney Co., June 15. 312. Chenopodium leptophyll m, Nutt. var. oblongifolium, Wats. - --Broken soil, Deuel Cor, July 2. 320. Chenopodium leptophyllum, Nutt. var. subglabrum, Wats. - Tis as well as the preceding is not in Webber's Catalogue. It seems to be very distinct from the true C. leptophyllum. - Hillsides: Ecott's Bluff, July 24. Fremontis Walson 321. Chenopodium Sp. . . . . . - I collected some undevelloped specimens of this last year, and sent some to Dr. Watson, remarking that the wife much like the C. opulifolium of Europe, which is e credited for North Amerika in DeCandolle's Programus. Dr. Watson said that it was to undevelloped to identify, but that it probably was a slender variety of C. album. This year, I have seen it in several places, growing as well together with album as elsewhere. It always grows shady and moist places. The only places, found it in fruit, was in Carter Canon, S.B.Co., July 26, and in McColligan Canon, D. Co., August 22. As I can not find any description that fits it, will I here give a short one: Plant about 2 feet high, slender, branched, nearly destitute of mealyness, except on the calyx, which is very small and carinate; leaves thin wery thin, 3-ribbed, 1 1/2-2 in. long, broadly triangular hastate-ovate lanceolate, entire or slightly toothed, mucronate; flowers in very small clusters on the slender branches; seeds easily separated from the pericarp. - Canon in Banner Coy. July 6, in 322. Chenopodium album, L. - Common. - Carter Canon, togother with the last July 26. 32". Monolepes chemopodicies, Mog. - Dry saline soil, Dewelle Co. June 27. Mot in Webbers Catalogue. 324. Atriplex patula, L. var. hastata, Gray. - Saline soil, near Horse Creek, S.B.Co., August 1. 325. Atriplex argentes, Nutt. - It is not given in Webber's Catalogue, but was collected by me, in 1890, in the salt basine near Lincoln. - Saline soil in Kiwa Valley, S. B. Co., July 28. 326. Atriplex Nutrallii, Watson. - Canon, east of Scott's Bluff, July 24; Kiwa Valley, S. P. Co., July 31. 327 / Burotia lanatu, kog. - Hillsides: Lawrence Fork, D. Co., July 10; Scott's Bluff, July 26. 328. Copiospermum hyssopifolium, L. - Canon, east of Scott's Bluff, J1117 24. Greans Ell. von salsa BSP.

329. Suaeda discussion. - Salino meadows: Pumpkin Seed Valley, B.Co., July 16; Horse Creek, S.B.Co., August 1. POLYCORAC AF. 330. Eriogonum alatum, Torr. - Hills: McColligan Canon, D. Co., June 26; Lawronce Fork, B.Co., July 8; Big Horn, B.Co. August 8. 331. Friogonum flavum, Nutt. - Cliffs: McColligan Canon, D. Co., June 26; Rush Creek, July 2; Upper Lawrence Fork, K. Co. August 10.

34 332. Friogen m ammuns, Nutt. - Common in Western Nebraska, on hills and prairies. - Lawrence Fork, B. Co., July S; Pumpkin Seed Valley, B. Co., July 14; Kiwa Valley, S.B.Co., July 28; Sidney, Ch. Co. Aug. 18. 3 3. Friogonum cernuum, Mutt. - This species was collected for the first time in Nebraska, in 1790, by me on a hill in Banner Co., but the specimens were to inmature for identification. This year, I have found several new localities. In fact, it is not uncommon in the West. - Court House Rock, Ch. Co., July 4; Wild Cat Mts., B. Co., Jaly 16; Scott's Bluff, July 22; Kimball, Aug. 13; Sidney, Aug. 18. 334. Friegon m multiceps, Nees. - Cort House Rock, Ch. Cc., July 1; Se Scott's Bluff, July 25. It sometimes varies with long pericels; Hills south of Scott's Blaff, August 4. (354b). aproaching von tenderi 355. Eriogon in microthecum, Nutt. var. .... This, and also the next, differs from the specimens in the Lorbarium of the University of Nebraska, in that in my specimens the nerves of the involuce a " barely seen, the leaves are broader, scarsely revolute, and se scarsely glabrate on the upper side. - Prairies in Kiwa Valley, S. B. Co., July 28. 330. Briogonum microthecum, Natt. var. offasum, T. & G. - Leaves broad or, not revolute; seem repeately trichotomously and diffusely branched. - North of Kimball, August 12; Not in Webber's Catalogue. aninothermo Nutt. I more densely flowered formoutly. 337. Friogonum commbosum, Bensh. - It in not given in Webber's Catalogie, and is not in the Herbarium of the University. - Prairies: Kimball, August 12; Potter, Ch. Co., July 15. 553. Priogonum brevicaule, Nava, - Collected for the first time in Nebraska, This year. - Hills in the Kiva Valley, S. B. Co., July 28629. 1 7 339. Rumex venosus, Pursh. - Hills and sandy soil: Near Chappell, D. Co., June 29; Court House Rock, Ch. Co., July 4. Mith 339 There was one their of Moronia micronika For. Now A Tele. 340. Rumex salkicifolius, Weinman. - Sands of Platte, near Horse Crook, S. B. Co., August 1. anspus Li 341. Rumex .... - I do not know where to place this. It is not E. altissimis, as all the valves are grain-bearing. The general appearance is to unlike R. Britanica. The valves are not sub-rhomboid as in R. verticillatus, and the pedicels shorter. The size of the plant, and the form of the paniels and of the valves are those of P. salicifolius; but the leaves are reticulated, and somewhat wavy-margined in the manner of R. maritimis. - It seems to be intermediate between the proceding and the following, together with which two it grew on the sands of Platte River, near Horse Gra Creek, S.B. Co. August 1. 342. Pumox magistimus, L. - Sands of Platte, near Horse Greek, S. B. Co. August 1. aviculence L. " seed granulen. Los too mall for crechun 343. Polygonum erection, L. (?). - Unusually large and decumbent spocimens, growing in water in lodge Pole Crock, near Sidney, August 12. Polygon y sp. ... Stem much branched, low, prostrate, Peraplent, branchless with very short joints, nearly covered by the cheaths, which are brownat the base; the scarious tips long and loose, soon lacerate, leaves crowded, oblong, 2-3 lines long, decide-

28 ous: flowers minute, redish or brownish; seeds shining. It agrees well with the description of P. minimum, Wats. or still better world. that of P. Torreyi, Wats., but neither is reported from as far east as Nebraska. It, maybe, is but a small variety of P. aviculare. Tho locality indicates, however, that it, without any doubt, indigenious. Near a spring, in Deuel Co., August 24. 545. Polygon na ramosissimum, Michx. - Very variable. - Sand-draw, D.Co., Angust 24; Lawrence Fork, E.Co., July C; Carter canon, S.B.Co, Jaly 26. 345. Polygonum tenue, Michx. - Hills in Banner Co., July 10. 34%. Polygonum lapatifolium, L. - Lodge Pole Grock, noal Kimball, August 12. 348. Polygonum lapatifolium, L. var. incanum, Koch. - Lawrence Fork, B.Co., July 3. 349. Polygomum Munlenbergii, Wats. - Platte River, near Horse Crock, S.B.Co., August 1; Lodge Pole Greek, near Kimball, August 12. 350. Polygonum Convolvulus, L. - Rail Road bank, near Kimball, Aug. 13. 351. Polygonum dumetorum, L. var. scandens, Gray. - The wings of the fruits of nearly all my specimens are more or less lobed. - McColligan Canon, D. Co., August 36. Elacagoraceal; 352. Shephordia argentea, Nutt. - In fruit, on the islands in Platte River, near Gering, S. R. 60%, July 24. TUPLOPBIACHAR. 305. Emphorbia petaloidea, Eng. - Variable; leaves from linear to broadly oblong; appendages from oval oblong to neurly triangular seeds from gray to reddish .- Sand-draw, Douel Co. June 25 & August 24; Scott's Bluff, July 22; Kiwa Valley, July 30; McColliganCanon, D. Co., August 22. 354. Ruphorbia sampyllifolia, Pers. - Rail road bank, Curtis, Frontior Co., June 22; Kiwa Valley, S.B.Co., July 30. 305. Emphorbia glyptosperma, Enc. - Lawrence Fork, B. Co. July S; Kiwa Valley, S.B. Cor, July 28; Sands of platte, near Horse Creck, August 1; McColligan Canon, D.Co., August 22; Sands of South Platte, Big Springs, August 25. 1856. Euphorbia 50. . . . . . . . . . . . . . . . It is near to P. serpyllifolia P. glyptosperma; upright, much branched; leaves linear oblong, a Li little oblique at the comeate base, short petioled, serrate at the apex, about 1/2 in. long; peduncles axillary, leafy clusters; pods angled; seds oblong, brownish, 1-angled, minutely wrinkled or pitted. The general appearance is somewhat like that of P. glyptosperma, from which it differs in the seeds. )- Gultivated soil, 6 miles south of Potter, Ch. Co., August 13. 357. Euphorbia maculata, L. The leaves are unusually broad as in F. huministrata, and the involucre silky; the seeds oblong, sharply angled, with about 4 blunt ridges. - Upper Lawrence Fork, August 12.

29 558. Ruphorbia Fendleri, T. 6 G. - Collected for the first time in Nebraska, by me in 1890. - Upper Lawrence Fork, K. Co., August 12. 359. Ruphorbia hexagona, Nutt. - In sand, common. - Lawrenc Fork, B. Co., July 8; McColligan Canon, D. Co., August 22; Sand-drav, D. Co., August 24. Cl. Euphorbia man.

A last year were smooth, wherefore India not overlonged to M. dentata. As the seeds are not evate-globular,
evate pyramidal, more or less 3-4-angled, obliquely truncate at,
the base, grouved on the shorter side, and rather prominently tuning
herculated; so I named it M. cuphusperma, although this has only
alacted at the Maxican Boundery. All specimens collected
amme station, are more or less hairy, and the
total. It is undoubtly nearly related
The I aves are linear or
total and somewhat the same and somewhat the same station. Povolute. - Canon, near Lawrence Fork, B.Co., July 9. 530. Fuphorbia montana, Eng. - Hills: Near McColligan Canon, D. Co., June 26; Near Lawrence Fork, B. Co., July 3. 365. Choton Texensis, Mill. - Sand: Hawarence Fork, B.Co., July 8; A Rush Creek, D.Co., July 2; Potter, Ch. Co., August 1:. TRTICACEAL. 364. Celtis occidentalis, L. - Not uncommon in canons and near water. In some, rocky places it becomes only a small tree, with narrow leaves and smooth, not corky bark .- Sidney, Ch. Co., August 16. 305. Urtica gracilis, Ait .- Common throughout the state .- Canon. near Big Horn, B. Co., August 10. 566. Parietaria Pensylvanica, Ruhlemberg. - Shady places: Curtis, Frontier Co., June 22; Lawrence Fork, B. Co., July 9. PLATAMACHAE. 30%. Platanus occidentalis. - Some young trees (maybo, raised from seeds) on the banks of Platte River in Kearney Co. It has been reported from only the very S.E. Comer of Nebraska. July 25. SALICINIAI. 308. Salix Longifolia, Muhl. - A very variable spocies, Common. - Lawrence Fork, July 9; On Platte Bottom, near Horse Creek, August 1; and in Mitchel Valley, S.B.Co., August :; Kimball, August 12; Sidney, at Lodge Pole Creek, August 18. 369. Salix lengifolia, Muhl. var. . . . . . - Leaves shorter, -mah female aments short, capsule short, ovate. Only a small bush, very often moncecious. Platte, Kearner Co., June 10; Canon, Fren Gospor Co., June 20; Carter Canon, S.B. Co., July 26; Horse Creck, August 1. 370. Salix longifolia, Muhl. var. . . (?). . Stom blue Carter Canon, 371. Salix cordata, Muhl. var. vestita, And. - Lawrence Fork, B.Co., July 8; Carter Canon S.F.Co. July 86. Noither flowers nor fruit son.

and pointed top, growing in the region, I took it for unusually tall specimons of Juniperus Virginiana. Coming a little nuarer I saw my mistake. It was a Populus, unlike all I have seen. As the buds were very ballsamiferous and the leaves cuncate at the base, I thought it was nothing but P. angustifolia, which I have never sean growing. When at home, I compared it with my specimens of this poplar, collected by Mr. A.T. Williams in the Hat Creek Basin in north-eastern Nebraska, and I saw at once the difference between the two. Although the leaves of my poplar are rhomboid ovate , cuneate at the base, and not whitened beneath, do I believe, that, if not distinct from both, it is a variety of P. balsamifera rather than of P. angustifolia. The leaves are rhomboid, on petioles 1-2 inches long ( in P. angustifolia, they are only 1/2-1 inch), generally long acuminate, shining on both sides, regularly crenate except at the cuncute base. The teeth are larger, more distant, and more regalar than in P. angustifolia. Dr. Bess y states that the general . appearance of the true P. angustifolia is more that of a willow than that of a poplar, which is not at all the case with this. Tho general growth, the size, form, and color of the trunk were somewhat between those of P. balsamifera and P. angulata, although most like the former. The long and slender petioles reminded of the latter or even of the Quaking Aspen. Dr. S. Watson sais in his Revision about P. angustifolia: "Two forms are spoken of, the Yellow Cotton Wood, making fair lumber, and the Black Cotton Wood, Common and extensively planted in Utah, but the wood is considered worthless." Maybe this is the former. I saw it growing only at one place, viz. in Carter canon, where it grew along the brock, together with P. angulata. The grove contained over 100 trees of this poplar, from 40 to 60 feet high, some measuring 18 inches in diameter. - Carter Canon, St. B. Co., July 26.

IRIDACHAU.

373. Sisyrinchium acops, Cav. - Near a spring, south of Pumpkin Seed Valley, B. Co., July 6. New to Mebraska.

374. Allium tiendatum, Frasor. - It is not recorded in Webber's Catalogue. I found it growing at several places on the prairies? It was out of bloom and only a few specimens were collect d. - Prairie in Dewel Co., June 25.

575. Yucca angustifolia, Pursh. - On the hills of Western Hebraska: - Canon in Gosper Co., June 20; Scott's Bluff, July 20.

378 Pritellaria atro-purpurea, Mutt. - In fruit only, near Scott's Pluff, July 25.

E of when Caltiche Det JUNICACHAI. 278. Juneus filifornis, L. (?). - North Platte River, Ch. Co., July 3. 379. Juneus tenuis, Willd. - Wet prairie, Kearney Co., June 10; -Pumpkin Seed Valley, B. Co., July 16. 379b. is a variety with channeled leaves, lax paniele, and very long bracts. - Pumpkin Seed Valley, B. Co., July 6. 380. Juneus bufonius, L. - It is not given in Webber's Catalogue. but has been collected in Hebraska before, and by me in 1090. ----North Blatte River, Ch. 60., July 3; Carter Cenon, S. B. Co., July 23; Canon near Big Horn, B. Co. August S. 381. Juneus modosus, L. var. megacephalus, Torr. - Platte River, near Horse Creck, S. R. Co. August 1. TYPHACEAL. 383. Typha latifolish - In Lodgo Pole Creek, east of Pottor, Ch. Co., August 17. 384. Sparganium eurycarpum, Eng. - The leaves befor dry were neury triangular. - In Lodge Pole Creek, east of Potter, Ch. Co. August 17. LEMMACHAE. 385. Lemna minor, L. - Lawvence Fork, B.Co., July 10. Inc. Lemasperpasille, Terr. (?). - It might be a variety of L. minor, due to the condition of the water, in which it grew. The frond is oblong with distinct, although not prominent nerves. The root is slender up to 2 inches long. - Spring near Horse Creek, S.B.Co. August 1. ALIEMACEAL. 307. Alisma Plantago, L. var. Americana, Gray. - Low ground, Mitchelk Valley, S.B. Co., August 4. 588. Sagittaria variabilis, Eng. - Pumpkin Sond Creek, B. Co. July 16; Horse Crock, S. B. Co., August 1. HAJADACEAL. 389. Zannichellia palustris, I. - Lawrence Fork, in the creek, B.Co, July 11. 390. Triglochin maritima, L. - Low ground: Platte River, Kearney Co., June 15; Pumpkin Seed Valley, B.Co., July 17. CYPERACEAE. 391. Cyperus aristatus, Rottb. - Sands of Platte River near Horse Creek, S. B. Co., August 1.

392. Cyperus Schweinitzia, Torr. Wet prairies: Kearney Co., June

15; Devel Co., June 25.

393. Scirpus pungens, Vahl. - The culm has often only one spikelet. - Lawrence Fork, B. Co., July C. 594. Scirpus lacustris, - Canon, Kiwa Valley, S.B.Co., July 30. 395. Scirpus maritimus, L. - Platte River, Kearmer Co., June 15. 396. Scirpus atrovirens, Muhl. var. pallidus, Britton. - Low Ground, Kiwa Velloy, S.B.Co., July 30. 397. Fliocharis acicularis, R. Br. - Wet prairie, Dewel Co., June 27; Lodge Pole, Ch.Co., August 18. Jalustris (L) ReS., var glancescens Gray

Gulm somewhat flattened, stricte; achenes obovate, muricate. It might be a variety of E. compressus, which has not been collected in Nebraska, but the achenes are not strictly triangular, although a little thickened on the back. Dr. 2 Britton mentions in his Revision, that specimens of N. palustris with flattened culm hav been collected in Mo.-Texas. This is not I. palustris, at least not I. pelustis of Murope. - Wet prairie, Keamey Co., June 13. 390. Fimbristylis spadices, Vohl. ver. castanez, Gray. - It is not given in Webber's Catalogue, but was collected in 1889 by Nev. Bates of Valentine, Neb. - Scott's Blaff, July 23; Neur Horse Creek, S. B.Co., August 1. 400. Carox sp. ... ... This is named "Niggor Heads", "Bunch Grass", "Wire Grass", &c. The first two numes it recieved, because it grows in very dense, hard bufts; the last , because its fine roots are black and, when dry, tough as wire. The ground on which it grows is regarded as the best, but it is very hard to brake on account of the tufts, which do not rot for geveral years. It was out of bloom, when I reached Vestern Nebraska. Only one specimon was secured. I have not determined to which specims it belongs, This is also the case with all my collection of the genus Carex. I have not classified a single American Carox. Supposing them as hard as the European ones, I leave them undetermined. - Prairie, Dewel Co., June 35. 401. Carex. navida Boott, von delibi Boll.

Prairie, Dewel Co., June 27.

402. Carex. franche Barley. Wet prairie, Kearney Co., June 18. Muhlenbergis Sikkulur. 103. Carex gravida Barley. Wet prairie, Kearn Co., June 13. 404. Carex frihformisk. Lawrence Fork, B. Co., July 10. and " stricta Lans Jamesis Vor GTAMINTAL. / 105. Panicum capillare L. - Hill, Kiwa Valley, S.B.Co., July 30; -Sidney, Ch. Co., August 18. / 106. Panicum virgatum, L. - Pyairie, near Horse Greek, S. B. Co., Aueust 1. 407. Panieum virgatum, L. var. confertum, Grey Vasev. - Not repried for Nebraska. - Lawrence Fork, B. Co., July S. ---406. Penicum scoperium, Lam. - - Sand-hills, Kearner Co., June lo.

- suil. Lavrace Pork, B. Co., July 8.
- 127. Oryzonsis cus idata, Benth. The most beautiful grassin Nebraska. Not uncommon west. McColligan Canon, N.Co., June 26; Rush Creek, N.Co. July 2; Platte River, Ch.Co., July 3.
- 138. hahl mbergia 1 . B.S.P. Lodge Pole near Sidney, Aug. 10.
- / 429. Mahlenbergia pungens, Thurb. It is called "Sand Grass" in Kearney Co. Sand-hills of Kearney Co., June 13; In the "Bad Lands, north of Scott's Blaff, July 24.
  - 1 430. Sporebulus cuspidatus, Toom. Mills: Big Horn, B. Co., August ...
- 1 132. Sperobalis cryptendras (Trin) Gr. Platte River, Keschev Co., June 15; McCollisson Canon, D. Co., June 20; Potter, Ch. Co., Aledst 1.

  - /234. Sporobulus aivoires, Porr. Common on low ground. Platte Hiver Ch.Co., July 3; Pumpkin Seed Valley, E.Co., July 13; Horse Greek, S. B.Co., August 1; Sidney, August 19.
  - / 435. Sperobilus asperifolius I. & M. Cirter Canon, S. B. Co. Juli 20.
  - of a Sporobulus, indoubtly of the named. Sands of Platte River, near Horse Creek, S.B.Co., August 1.
  - / Agrostia alba, L. The "Red-top" in the East regarded as one of the best grasses for hay, is regarded by western stockmen nearly as good for nothing. Platte River, near Horse Creek, S.B.Co. Aug. 1.
  - 199, B.Co., July 10; Carter Canon, July 26; Near Platte; July 25; & Near Horse Creek, August L.
  - 439. Calamagrostis Canadensis, Michx. Platte Piver in Maarney Co. June 15.
  - √ 440. Calamagrostis stricta, "rin. - Platte River, Chevenne Co., July 3; Scott's Blaff Co/, July 24.
  - 441. Calamagrostis confinis, Nutt. (?). Not reported for Mebrasks. Platte River, Kearney Co., June 15.
  - 442. Avena elation. New to Nebraska. Lincoln, June 12.
  - 1443. Schedonardus Texanus, Stend. Platte River, Ch. Co., July 3; North of Kimball, August 12.
- rage plant of the high plains, and furnishes good pasturage even in the winter. Rush Creek, D.Co., July 3.

- # 445. Bouteloua birsute, Lag. Fills: Lawrence Fork, B.Co., July 9;
  Upper Lawrence Fork, K.Co., August 12.
- 1/146. Boutelous racemosa, Lag. Fills: Rush Greek, B.Co., July 3.
- 447. Buchloe dactyloides, Eng. The "Buffalo Grass" is Slowly disappearing from a stern Nebraska, But is jet one of the principal grasses of the high plains. Phelps Co., June 15; Kearney Co., June 15.
- 1448. Phracmites communis, Trin. Platte near Horse Creek, D.B.Co., August 1.
- / 449. Manroa squarrosa, Toor. Frequents the "Prairie Dog Towns." Sand, Rush Creek, D.Co., July 2; Big Forn, B.Co., August 8.
- / 450. Koeleria cristata, Pers. Low specimens from the prairies of Kearnev Co., June 13; Dewel Co., June 25.
- Co., June 25.
  - 152. Hatonia obtusata, Gray. + Prairies, Wild Cat Mts., B.Co. July 16; North of Scott's Bluff, July 23.
  - A 453. Matonia of the Mark The specimens are not fully developed. The leaves are broad (3-4 lines), lighter conspictous, truncate toothed and divided, the spike is more compound, with lower, more open branches; spikelets, and the whole plant more robust than F. obtisata, with it otherwise resembles. Canon in Kiwa Valley, S.B. Co., July 2.
  - / 104. Catabrosa quatica, (L) Beuv. Lodge Pole, near Sinney, Aug. 19
- 455. Distichlis Wicata, Com. van. Stricta, Thurber. Salt marshes, R.R.Bank, Cartis, Frontier Co., June 22; Platte River, Ch. Co., July 3; Big Horn, B. Co., August 8.
  - 456. Poa alpina, L. It is not given in Webber's Catalogue, but was collected, in 1889, by A.T. Williams in War Bonnet Canon. McColligan Canon, D.Co., June 26.
- 457. Poa tenuifolia, Nutt. var. . . . (?). It agrees with the descipation of this species, but it is not densely tufted; the panicle is rather leese close; the rays are not distant, spreading. It is a not uncommon on low land. Kearney Co., June 15; Chevenne Co., June 193.
- 458. Poa Vevadensis, (?). This grows on dryer soil and is more tufted than the preceding. Lawrence Fork, B.co., July 8.
- 459. Glyceria distans, (L) Wahl. Lodge Pole, near Sidney, Aug. 19.
- 460. Glyceria nervata, Trin. Longe Pole nea Potter, Ch. 60/ Aug. 18.
- Phelps Co., June 18; ills, Dewel Co., June 95.

genus Agrouyrum are very difficult to distinguish. Especially is this the case with repens, glacum, and tenerum, which all seem to run together I have given each form a separat number; not that I regard them distinct, but mere forms. - In the first, the stem is slender, the spike narrow, the leaves involute, and the glunes pointed. It approaches somewhat A. tenerum. - Scott's Blaff, July 1. 484. Acrony me claudin, P. S. Har. . . . . More stout, leaves involute, al mes blant. - Lawrence Fork, B.Co., July W. glimes puinted. - This is the most common form. - Laurence fork, P.Co., July S; Pratrie, Phelps Co., June 18. 463. Agropyrum flatte um, 1.78. var. ... Leaves flat, olumes acute or caspidate. - Low prairie, Rearney Co., June 13. with the spikelets distorted by ergot. The leaves are short, involute, the spikelets few, many-flowers an crowded; glumes less plainly negwed, downy, acute. - Kimball, August 12. ves involute, glumes cuspidate or awned. - McCollisan Canon, .co., June 26; Pumpkin Seed Valley, B.Co. July 6; Carter Canon, S. D.Co., July 25. 140. Agrayyrum tenerum, Vasev. War. . . . - Otrict, leaves involite, setacious, climes blint. - Punpkin Seed Pallev, July 13. 170. Agropyrum tenerum, Vasev. var. . . . . - Tlender, Isaves broader, flat; flate cuspidate or awned. - Lewrence Fork, P. Co., \* Jily 7; Canon ir Pampkin Seed Valley, July 6; Carter Canon, S. B. Co., July 26. 471. Agropyrum tenerum, Vasev. var. . . . It seems to be a lixuri-Vois form of As tende im, near the last, but with much larger spikelets, connecting it with the broad leaved forms of A. claucum. Scots Blaff, Jaly 24. 1472. Flymas Sitemion, Schult. - It is not given in Webber's Catalogie, although it has been collected at several places in Nebraska. It seems to be not very uncommon, but is sletimes confounded with Forde un judatum. - Prairie, Dust Creek, D. Co., July 2; Platte Bottom, S.B.Co., August 4. 473. Thomas Canadensis, L. - Verv variable, sometimes with the spikes 6 in. long and the leaves 3/4 inch wide. Low land and near water: Lawrence Fork, B.Co., July 8; Platte Fiver, -. B.Co., July 8; Witchel Valley, S. B. Ma., August 4. CONTENTAL. ern Nebraska is a good sized tree, with conical crown, with the branches from near the cround. The leaves are, as isually, of two kinds, viz. on the younger branches awlshaped, and on the older "triangular in outline, but generally longer than broad. The Red Ceds ar of the low-lands and canons of Western Mebraska differs not ma-6

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terially from the eastern form, but on the Wild Cat Mountains and other oracs in Panner and Scott's Bluff Counties, there grew a low. scraoly tree, about 12-18 feet high, with rounded top, and the stem free from branches below. The color of the trunk was bright red as in Pinus resinosa, and that of the branches gravish. The branchlets were 4- angled, crouded with very small, broadly triangular leaves, which are about as broad as long, resembling more those of J. Sabina ver. procumbers. I can not remember that I saw any awlshaped leaves at all. The berries are on streight peduncles as in . Wirginiana, but smaller, scarsely 2 lines in diameter, with/2 uncled and grooved seeds. W. Engelman states that among the foot hills of Pikes Peak, the trees of J. Virginian have the size and shape of an apple tree, with a roundet, spreading top. Dr. Besser remarks that the also was struck by this peculiar form of the Red Ceders at Maniton. Col., which is not very far from Pike's Peak. This is indoubt-17 the same variety. The Ped Cedars of the North Platte Perion Mave also attracted the attention of Nebraska nurserymen, to which fact Dr. Bessey refers in his List of Frees and Shrubs of Febraska. -- Wild Cat Mountains, B -o., July 13.

DOUTSHTACEAS.

470. Equisetum limosum, L. var. - This has sometimes been named T. laeviratum, as the branches are very few and sometimes none. T took it at first for F. robustum or hiemale, but it lacks the black girdle. - Flatte Timer, Rearnew Co., June 15.

476. Falisatim lasvisatum, Train. - Temporairie, Restmen Co. Thesia

477. Britisetum variesalum, Scheicher. - Let prairie, Francos Cu.,

478. Aspidium Thelupteris, (L.) Sw. - Fronds only in a grassy maush near Platte Piver, Kerry Cox, June 15.

4.9. Leilanthes languiness, Mutt. - It is not given in Webber's Catalogue, but has been collected before in Mebraska, and by me in 1890. - On exposed rocks, near Big Lorn, R.Co., August 7.

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